

SENIOR METEOROLOGIST

DEFINITION:

Under general direction, to supervise Meteorology staff in the analysis and prediction of meteorological conditions as applied to air pollution dispersion; and to perform related work as required.

DISTINGUISHING CHARACTERISTICS:

Senior Meteorologist is a one position, first line supervisor class in the Meteorologist class series. Under general direction the Senior Meteorologist is responsible for directing the activities of a Meteorology or Modeling Section which performs air quality control forecasting or modeling analysis. This class differs from the next lower class, Associate Meteorologist in that the latter is a journey level class and does not have supervisory responsibilities.

EXAMPLES OF DUTIES:

Plans, directs, coordinates, and schedules the work of a Meteorology or Modeling Section; selects, assigns, trains, reviews, and evaluates the work of subordinate professional, technical, and support staff; analyzes and evaluates meteorological and air quality data for purposes of air quality forecasting; develops and implements methods for determining sources of violation of air quality standards; directs and assists in preparing air quality modeling for permitting, health risk assessment and air quality planning purposes, utilizing and interpreting regulations and guidance from the Air Resources Board and Environmental Protection Agency; coordinates activities with other Federal, State or local regulatory agencies; recommends future data procurement and handling methods; evaluates sites for monitoring station location; coordinates staff activities with other divisions and agencies; represents the department on technical committees; provides expert testimony; and performs administrative work relating to the operation of a Meteorology or Modeling Section.

MINIMUM QUALIFICATIONS:

Knowledge of:

- Meteorological and air quality forecasting techniques.
- Atmospheric and air pollution processes.
- San Diego and southern California climatology.
- Federal regulations pertaining to air quality forecasting and siting of air monitoring stations.
- Regulatory modeling guidelines and applications.
- Computer modeling applications.
- Current developments in air pollution modeling technology.
- Principles and techniques of personnel supervision and training.

Skills and Abilities to:

- Plan, supervise, assign and evaluate the work of subordinates and section activities.
- Plan, direct and implement improvements in meteorological and air quality analysis and modeling.
- Collect, compile, analyze, monitor, and evaluate air quality meteorological data.

- Review meteorological and air quality data to determine source impacts on regional air quality and if clean air goals are met.
- Apply modeling results for strategy development, regulatory permitting, and health risk assessment.
- Utilize computers for computational and analytical purposes.
- Communicate effectively in oral and written form.
- Establish and maintain effective working relationships with those contacted during the course of work.

EDUCATION/EXPERIENCE:

Education, training, and/or experience which demonstrates the application of the knowledge, skills and abilities listed above. Examples of qualifying education/experience are: a Bachelor's degree from an accredited college or university, or certified equivalency for foreign studies in meteorology, atmosphere science or a closely related field; AND,

1. Two (2) years of experience as an Associate Meteorologist in the County of San Diego; OR,
2. Four (4) years of professional experience performing meteorological analysis, air quality forecasting and air quality modeling, including two (2) years meteorology/climatology work for San Diego or the southern California coastal region.

SPECIAL NOTES, LICENSES, OR REQUIREMENTS:

License:

A valid California Class C driver's license or the ability to arrange transportation for field travel is required at time of appointment and must be maintained throughout employment. Employees in this class may be required to use their own personal vehicle.

Working Conditions:

Weekend and irregular work schedules may be required.